## **FPG-9 Control Activity**

Name_	Class	·
<u>Directions</u> : Answer the question response. You should draw the plane is flying away from you your plane with the same amount	lane from a rearview perspective and in to the paper. Remember	e, as though to launch
How would you position both picture below: (You are looki		Draw the elevons on the
	4	
2. What happens when the elever moved to the left? (You are left)	ons are neutral (they are even with ooking at the back of the plane.)	th the wing) and the rudder is
4		
3. Place the rudder in a neutral p <b>both</b> elevons to get your plan	position for the following experime to fly to the left? Draw the pos	
	4	
4. How can you get your plane to picture of the back of each place combinations of the rudden	ane and show the position of its	
4	4	4

Collect data for these two different elevon configurations:

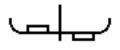
Elevon	Flight Time (Seconds)				Average Flight Time
Configuration	Trial 1	Trial 2	Trial 3	Trial 4	(Seconds)
(A)					
B) 4					

5. Which configuration (A or B) is better at keeping the nose of the plane in the air? Which plane flew longer? Why did it fly longer?

6. Which configuration (A or B) has more drag? Why? What do you think drag is?

7. Refer to the following picture to answer this question: Which wing has higher pressure <u>under</u> it when the plane is flying? Circle your answer below:

The **left wing** has higher pressure under it.



The **right wing**has higher
pressure under
it.